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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/685,463	10/16/2003	Tetsu Takahashi	1614.1367	1888	
21171 STAAS & HA	7590 03/17/200 LSEY LLP	EXAMINER			
SUITE 700			MOTSINGER, SEAN T		
1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER	
			2624		
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			03/17/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

10/685,463 TAKAHASHI, TETSU Office Action Summary

Application No.

Applicant(s)

earned patent term adjustment. See 37 CFR 1.704(b).

Office Action Gammary	Examiner	Art Unit						
	SEAN MOTSINGER	2624						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no exent, however, may a reply be timely flied after SIX (6) MONTHS from the mailing date of this communication. If NO period to reply is globelined above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of the status of the support of								
Status								
1) Responsive to communication(s) filed on 10/6/	<u>2008</u> .							
2a) This action is FINAL. 2b) ☐ This	action is non-final.							
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠ Claim(s) <u>1-10.12 and 13</u> is/are pending in the a	polication.							
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-10, 12 and 13</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or	election requirement.							
Application Papers								
9) The specification is objected to by the Examine								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
			FR 1 121(d)					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
 Copies of the certified copies of the prior 	•	ed in this National	Stage					
application from the International Bureau								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Day							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/Sbr08)	5). Notice of Informal F	atert Application						

Notice of References Cited (PTO-892)	4) Interview Summary
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D
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Paper No(s)/Mail Date _____.

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Response to Applicants Arguments/Amendments

Applicants arguments/amendments filed on 10/6/2008 have been entered and made of record.

Applicants arguments/amendments have been fully considered but are moot in view of new grounds of rejection.

Rejections Under 35 U.S.C. 112 First paragraph

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-10 and 12-13 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claims 1-10 and 12-13. are not enabled by the specification as originally filed. According to applicants arguments the input of claim 1 is the MPEG format see Applicants remarks filed on 10/6/2008 page 5 "input into the mpeg encoder includes data in the MPEG format. In claim 1 there is claimed "A second unit discarding a second set of frames which lie between two of the first set of frames in the input video sequence, to cause the encoding unit to skip each second frame and perform

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predictive coding of a corresponding one of the first frames immediately preceding the second frame." This describes taking the input video sequence and encoding the second set of frames as a "predictive coding of a corresponding one of the first frames immediately preceding the second frame". This operation is not enabled with respect to an MPEG input as described, one cannot merely discard the MPEG pictures without ruining the encoding scheme see applicants specification paragraph 77 as published. "The encodined data of the fourth picture B inherently cannot be decoded with no reference to the third picture preceding the fouth picture B". Therefore a normal MPEG stream could not function be discarding unless as stated in the specification paragraph 77 "all of the preceding pictures(the first through third pictures are encoded from the same picture A". This would not be true unless the MPEG sequence was already encoded such that " encoding unit to skip each second frame and perform predictive coding of a corresponding one of the first frames immediately preceding the second frame." This would mean the applicant was discarding "predictive coding of a corresponding one of the first frames immediately preceding the second frame" frames then inserting "predictive coding of a corresponding one of the first frames immediately preceding the second frame" to end up with the same coding sequence that applicant started with which makes no sense. The combination of steps of "leaving a first set of frames to cause encoding unit to perform predictive coding of the first set of frames" and ""predictive coding of a corresponding one of the first frames immediately preceding the second frame" does not make any sense when the input is an MPEG video stream and appears to only be relevant to an input of an un-encoded video stream.

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Futhermore the section of the specification from page 15 lines 15- page 16 lines 22 which support amended claim 1 is not described in such a way as to enable one of ordinary skill in the art to perform the invention. According to applicants specification an "I picture is always inserted as the head-end picture for each of the plurality of GOP." (see page 13 lines 25-30) In the process of page 15 and 16 only "head end" video packs are counted by the counter (see page 15 lines 15-25), video packs. since there is only one head end video pack per GOP the counter would increment from -1 to 0, and never incremented again all the way until the tail end video pack in fact it may even be set to negative one at some point. In short this makes no sense and will not result in the parameter B being "the interval at which the pictures are left. Furthermore it is unclear how counting head end video packs would result in the function applicant describes it appears that no frames would be skipped each GOP because the counter would always read 1 after the head end video pack until the end of the GOP because each GOP has a head end video pack.

Furthermore page 15 states "In the following description, the term "frame" is used in the same meaning as the picture (or video pack)." But the claim uses the language "the first set of frames and the second set of frames include a plurality of video packs. This makes no sense because if a frame and video pack are the same thing a frame what does this limitation even mean.

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Furthremore the limitataion "the head information is read to determine weather a currently read video pack is a head end video pack in the first set of frames or the second set of frames" makes no sense. The specification does not define how reading the header information determines weather the currently read video pack the head-end video pack is a head end video pack in the first set of frames or the second set of frames. How does the header contain this information on which set of frames it is in.

Furthmore it is unclear how the second set of frames could include a head end video pack since the specification defines these as I pictures and the specification describes the second set of frames as P frames (which also makes no sense because it is unclear how claim 1 would operate if the input was an MPEG steam).

Claim 2 and 7 state: "...the second frames which are discarded are predictive-coded pictures contained in the input video sequence." However in applicants claims these frames to be head end video packs (I-frames). It is unclear how a P frame could be an I* frame.

Re claim 12 claim 12 makes no sense how determining if the frame is a head end video pack would help in the leaving function. The section of the specification from page 15 lines 15- page 16 lines 22 which support claim 12 is not described in such a

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way as to enable one of ordinary skill in the art to perform the invention. According to applicants specification an "I picture is always inserted as the head-end picture for each of the plurality of GOP." In the process of page 15 and 16 only "head end" video packs are counted by the counter (see page 15 lines 15-25), video packs. since there is only one head end video pack per GOP the counter would increment from -1 to 0, and never incremented again all the way until the tail end video pack in fact it may even be set to negative one at some point. In short this makes no sense and will not result in the parameter B being "the interval at which the pictures are left. Furthermore it is unclear how counting head end video packs would result in the function applicant describes it appears that no frames would be skipped each GOP because the counter would always read 1 after the head end video pack until the end of the GOP and the tail video pack.

Claim 13 as amended also has the same problems as claim 1 see rejection above.

Claim 13 as amended also makes no sense how can each picture have a plurality of frames? or what does it mean plurality of picture be a "head end set of pictures". The specification does not describe a "head end set of pictures" nor is it clear what this even means.

Furthermore claim 13 claim reducing a number of frames to be decoded in the decoder. The examiner understands this to mean that frame rate of the output is slower

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then the input wherein there are no dummy, repeating frames in the output but a fewer number of frames. However this does not appear to match what applicant has described in his disclosure. On page 13 lines 25-37 applicant describes "As the encoding of the pictures skipped is not preformed the encoding of a corresponding one of the pictures left which immediately precedes the skipped picture is preformed instead." To the examiner this suggests that a second encoding of preceding frame is preformed "instead" of encoding the skipped frame. Furthermore page 14 lines 1-12 also seem to support examiners conclusion i.e. "performs the encoding of the same picture". This does not enable reducing the number of frames to be decoded since the number of frames will be the same.

Claim 13 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 13 as amended also claims each picture has a plurality of frames this is not disclosed in the specification. The specification does not describe a "head end set of pictures" nor is it clear what this even means.

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Claim 13 reducing a number of frames to be decoded in the decoder. The examiner understands this to mean that frame rate of the output is slower then the input wherein there are no dummy, repeating frames in the output but a fewer number of frames. However this does not appear to match what applicant has described in his disclosure. On page 13 lines 25-37 applicant describes "As the encoding of the pictures skipped is not preformed the encoding of a corresponding one of the pictures left which immediately precedes the skipped picture is preformed instead." To the examiner this suggests that a second encoding of preceding frame is preformed "instead" of encoding the skipped frame. Furthermore page 14 lines 1-12 also seem to support examiners conclusion i.e. "performs the encoding of the same picture". Applicant's amendment and argument seem to reflect a different understanding of this language, the examiner is unclear on applicant's interpretation, and the examiner does not believe that said section is sufficiently clear to convey possession or enablement of said invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1-10 and 12-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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According to applicants arguments the input of claim 1 (and 13) is the MPEG format see Applicants remarks filed on 10/6/2008 page 5 "input into the mpeg encoder includes data in the MPEG format. In claim 1 there is claimed "A second unit discarding a second set of frames which lie between two of the first set of frames in the input video sequence, to cause the encoding unit to skip each second frame and perform predictive coding of a corresponding one of the first frames immediately preceding the second frame." This describes taking the input video sequence and encoding the second set of frames as a "predictive coding of a corresponding one of the first frames immediately preceding the second frame". This operation is not enabled with respect to an MPEG input as described, one cannot merely discard the MPEG pictures without ruining the encoding scheme see applicants specification paragraph 77 as published. "The encodined data of the fourth picture B inherently cannot be decoded with no reference to the third picture preceding the fouth picture B". Therefore a normal MPEG stream could not function be discarding unless as stated in the specification paragraph 77 "all of the preceding pictures (the first through third pictures are encoded from the same picture A". This would not be true unless the MPEG sequence was already encoded such that " encoding unit to skip each second frame and perform predictive coding of a corresponding one of the first frames immediately preceding the second frame." This would mean the applicant was discarding "predictive coding of a corresponding one of the first frames immediately preceding the second frame" frames then inserting "predictive coding of a corresponding one of the first frames immediately preceding the second frame" to end up with the same coding sequence that applicant

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started with which makes no sense. The combination of steps of "leaving a first set of frames to cause encoding unit to perform predictive coding of the first set of frames" and ""predictive coding of a corresponding one of the first frames immediately preceding the second frame" does not make any sense when the input is an MPEG video stream and appears to only be relevant to an input of an un-encoded video stream.

Furthermore regarding claim 1 page 15 states "In the following description, the term "frame" is used in the same meaning as the picture (or video pack)." But the claim uses the language "the first set of frames and the second set of frames include a plurality of video packs. This makes no sense because if a frame and video pack are the same thing a frame what does this limitation mean.

Furthremore the limitataion "the head information is read to determine weather a currently read video pack is a head end video pack in the first set of frames or the second set of frames" makes no sense. The specification does not define how reading the header information determines weather the currently read video pack the head-end video pack is a head end video pack in the first set of frames or the second set of frames. How does the header contain this information on which set of frames it is in.

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describes the second set of frames as P frames (which also makes no sense because it is unclear how claim 1 would operate if the input was an MPEG steam).

Claim 2 and 7 state: "...the second frames which are discarded are predictive-coded pictures contained in the input video sequence." However in applicants claim 1 these frames to be head end video packs (I-frames). It is unclear how a P frame could be an I* frame.

Re claim 12 claim 12 makes no sense how determining if the frame is a head end video pack would help in the leaving function. The section of the specification from page 15 lines 15- page 16 lines 22 which support claim 12 is not described in such a way as to enable one of ordinary skill in the art to perform the invention. According to applicants specification an "I picture is always inserted as the head-end picture for each of the plurality of GOP." In the proccess of page 15 and 16 only "head end" video packs are counted by the counter (see page 15 lines 15-25), video packs. since there is only one head end video pack per GOP the counter would increment from -1 to 0, and never incremented again all the way until the tail end video pack in fact it may even be set to negative one at some point. In short this makes no sense and will not result in the parameter B being "the interval at which the pictures are left. Furthermore it is unclear how counting head end video packs would result in the function applicant describes it

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Claim 13 as amended also has the same problems as claim 1 see rejection above.

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Furthermore claim 13 claim reducing a number of frames to be decoded in the decoder. The examiner understands this to mean that frame rate of the output is slower then the input wherein there are no dummy, repeating frames in the output but a fewer number of frames. However this does not appear to match what applicant has described in his disclosure. On page 13 lines 25-37 applicant describes "As the encoding of the pictures skipped is not preformed the encoding of a corresponding one of the pictures left which immediately precedes the skipped picture is preformed instead." To the examiner this suggests that a second encoding of preceding frame is preformed "instead" of encoding the skipped frame. Furthermore page 14 lines 1-12 also seem to support examiners conclusion i.e. "performs the encoding of the same picture". This does not enable reducing the number

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to SEAN MOTSINGER whose telephone number is

(571)270-1237. The examiner can normally be reached on 9-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bhavesh Mehta can be reached on (571)272-7453. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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/Bhavesh M Mehta/

Supervisory Patent Examiner, Art Unit 2624

Motsinger 3/13/2009